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1 Workshop on architectural support for security and anti-virus (WASSA): Using instruction block signatures to counter code injection attacks   ■
Milena Milenković, Aleksandar Milenković, Emil Jovanov
March 2005 **ACM SIGARCH Computer Architecture News**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: ▦ pdf(283.67 KB)   Additional Information: full citation, abstract, references, index terms

> With more computing platforms connected to the Internet each day, computer system security has become a critical issue. One of the major security problems is execution of malicious injected code. In this paper we propose new processor extensions that allow execution of trusted instructions only. The proposed extensions verify instruction block signatures in run-time. Signatures are generated during a trusted installation process, using a multiple input signature register (MISR), and stored in an ...

2 Education: Non-traditional graduate CS program integrated with distance technology   ■
Kenneth Hoganson
March 2005 **Proceedings of the 43rd annual southeast regional conference - Volume 1 ACM-SE 43**
Publisher: ACM Press
Full text available: ▦ pdf(433.38 KB)   Additional Information: full citation, abstract, references

> A non-traditional graduate computer science program emphasizing "applied computer science" with integrated distance technology is examined. The program emphasizes a subset of the discipline that has direct application. By focusing on this subset rather than the entire breadth of the discipline, students with degrees in fields other than computer science but with substantial computing experience can successfully do graduate CS graduate work. The selected areas include embedded systems, software e ...

3 Data and Content: MarconiNet supporting streaming media over localized wireless multicast   ■
Ashutosh Dutta, Subir Das, Wai Chen, Anthony McAuley, Henning Schulzrinne, Onur Altintas
September 2002 **Proceedings of the 2nd international workshop on Mobile commerce**
Publisher: ACM Press
Full text available: ▦ pdf(464.72 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Flexible multi-media streaming such as advertisement insertion, location based services, mobility and wireless access are vital components that make existing Internet Radio and

TV networks more attractive for the roaming users. All of these applications also provide added value to telematics, and military usage including coordination, education, situation awareness, distributed simulation, battlefield communication and multi-player games. While content distribution over a wired network can be rea ...

Keywords: join/leave latency, marconinet, multicast, streaming

4   I/O and memory system design: Inter-program optimizations for conserving disk ◈ energy
Jerry Hom, Ulrich Kremer
August 2005 **Proceedings of the 2005 international symposium on Low power electronics and design ISLPED '05**
Publisher: ACM Press
Full text available: pdf(362.77 KB)   Additional Information: full citation, abstract, references, index terms

Previous work has shown that intra-program optimizations, i.e., optimizations performed on individual programs in isolation, can be very effective in reducing disk energy in streaming applications. This paper investigates the potential additional benefits of inter-program optimizations where sets of programs are optimized together. Experimental results on different subsets of three streaming applications show that 7--49% additional energy savings (27.3% on average) can be obtained with negligibl ...

Keywords: execution context, inverse barrier

5   Stream Programming on General-Purpose Processors
Jayanth Gummaraju, Mendel Rosenblum
November 2005 **Proceedings of the 38th annual IEEE/ACM International Symposium on Microarchitecture MICRO 38**
Publisher: IEEE Computer Society
Full text available: pdf(412.96 KB)
Publisher Site   Additional Information: full citation, abstract

In this paper we investigate mapping stream programs (i.e., programs written in a streaming style for streaming architectures such as Imagine and Raw) onto a general-purpose CPU. We develop and explore a novel way of mapping these programs onto the CPU. We show how the salient features of stream programming such as computation kernels, local memories, and asynchronous bulk memory loads and stores can be easily mapped by a simple compilation system to CPU features such as the processor caches, si ...

Keywords: stream architectures/programming, prefetching, hyper-threading.

6   Software Streaming via Block Streaming
Pramote Kuacharoen, Vincent J. Mooney, Vijay K. Madisetti
March 2003 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '03**
Publisher: IEEE Computer Society
Full text available: pdf(168.48 KB)
Publisher Site   Additional Information: full citation, abstract, index terms

Software streaming allows the execution of stream-enabled software on a device even while the transmission/streaming may still be in progress. Thus, the software can be executed while it is being streamed instead of causing the user to wait for the completion

of download, decompression, installation and reconfiguration. Our streaming method can reduce application load time seen by the user since the application can start running as soon as the first executable unit is loaded into the memory. Fur ...

7 Dynamo: a transparent dynamic optimization system

Vasanth Bala, Evelyn Duesterwald, Sanjeev Banerjia

May 2000 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2000 conference on Programming language design and implementation PLDI '00**, Volume 35 Issue 5

Publisher: ACM Press

Full text available: pdf(156.03 KB)   Additional Information: full citation, abstract, references, citings, index terms

We describe the design and implementation of Dynamo, a software dynamic optimization system that is capable of transparently improving the performance of a native instruction stream as it executes on the processor. The input native instruction stream to Dynamo can be dynamically generated (by a JIT for example), or it can come from the execution of a statically compiled native binary. This paper evaluates the Dynamo system in the latter, more challenging situation, in order to emphasize the ...

8 Wireless home music broadcasting-modifying the NSLU2 to unleash your music!

John MacMichael

January 2006 **Linux Journal**, Volume 2006 Issue 141

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(15.59 KB)   Additional Information: full citation, abstract, index terms

Don't trip over wires in your home just to listen to your MP3s. Attach a Roku Labs SoundBridge to a Network Attached Storage device to broadcast the music to your stereo.

9 Applications: Design and production of new media artworks

Brigitte Kerhervé, Anis Ouali, Paul Landon

November 2005 **Proceedings of the ACM workshop on Multimedia for human communication: from capture to convey MHC '05**

Publisher: ACM Press

Full text available: pdf(76.91 KB)   Additional Information: full citation, abstract, references

New media artists today take advantage of, and are influenced by, the many possibilities offered by new digital technologies. They are very demanding users and a detailed examination of their practices and approaches will provide a better understanding of the usage of multimedia technologies. In this paper, we are interested in the design and creation of new media artworks. Through a concrete example, we present the different stages in the life cycle of an adaptive new media artwork and we ident ...

Keywords: design and creation, metadata, new media artwork, processes

10 Visualization and streaming: Collaboration by illustration: real-time visualization in Web3D

Frank Goetz, Bernd Eßmann, Thorsten Hampel

April 2006 **Proceedings of the eleventh international conference on 3D web technology Web3D '06**

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms

Graphical representation of complex data sets is an important method for supporting scientific collaboration. Following this idea, we developed a novel Web3D-based visualization framework that supports synchronous as well as asynchronous cooperation,

even of spatially separated scientist. Our open Visaar framework open-source technology and combines innovative techniques from the area of *computer-generated visualization* with modern achievements of CSCW (Computer Supported Cooperative Work ...

Keywords: collaborative visualization, computer supported cooperative work, realtime rendering, remote visualization

11 Active disks: programming model, algorithms and evaluation

Anurag Acharya, Mustafa Uysal, Joel Saltz

October 1998 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the eighth international conference on Architectural support for programming languages and operating systems ASPLOS-VIII**, Volume 33 , 32 Issue 11 , 5

Publisher: ACM Press

Full text available: 📄 pdf(1.57 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Several application and technology trends indicate that it might be both profitable and feasible to move computation closer to the data that it processes. In this paper, we evaluate *Active Disk* architectures which integrate significant processing power and memory into a disk drive and allow application-specific code to be downloaded and executed on the data that is being read from (written to) disk. The key idea is to offload bulk of the processing to the diskresident processors and to us ...

12 Validation and use of computer system simulation for a dual IBM 370/165 system

Edward A. Olmstead, John T. Madden

June 1973 **Proceedings of the 1st symposium on Simulation of computer systems**

Publisher: IEEE Press

Full text available: 📄 pdf(625.26 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper describes an application of computer system simulation used to evaluate the impact of implementing the "SET UP" features in LASP on a dual IBM 370/165 system. The system supports a scheduled workload. The use of SET UP requires change in the resource demand of the input job streams such that all job steps within a job assume the memory and tape unit resource profile of the largest step in the job. The SET UP feature was considered by some to provide more consistent sc ...

13 Extensibility safety and performance in the SPIN operating system

B. N. Bershad, S. Savage, P. Pardyak, E. G. Sirer, M. E. Fiuczynski, D. Becker, C. Chambers, S. Eggers

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5

Publisher: ACM Press

Full text available: 📄 pdf(2.32 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

14 Main track: Securing the deluge Network programming system

Prabal K. Dutta, Jonathan W. Hui, David C. Chu, David E. Culler

April 2006 **Proceedings of the fifth international conference on Information processing in sensor networks IPSN '06**

Publisher: ACM Press

Full text available: 📄 pdf(331.36 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

A number of multi-hop, wireless, network programming systems have emerged for sensor

network retasking but none of these systems support a cryptographically-strong, public-key-based system for source authentication and integrity verification. The traditional technique for authenticating a program binary, namely a digital signature of the program hash, is poorly suited to resource-contrained sensor nodes. Our solution to the secure programming problem leverages authenticated streams, is consisten ...

Keywords: authenticated broadcast, dissemination protocols, network programming, security, wireless sensor networks

15 SIMP (Single Instruction stream/Multiple instruction Pipelining): a novel high-speed single-processor architecture
K. Murakami, N. Irie, S. Tomita
April 1989 **ACM SIGARCH Computer Architecture News , Proceedings of the 16th annual international symposium on Computer architecture ISCA '89**, Volume 17 Issue 3
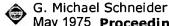**Publisher**: ACM Press

Full text available: pdf(1.23 MB)   Additional Information: full citation, abstract, references, citings, index terms

SIMP is a novel multiple instruction-pipeline parallel architecture. It is targeted for enhancing the performance of SISD processors drastically by exploiting both temporal and spatial parallelisms, and for keeping program compatibility as well. Degree of performance enhancement achieved by SIMP depends on; i) how to supply multiple instructions continuously, and ii) how to resolve data and control dependencies effectively. We have devised the outstanding techniques for instruction fetch an ...

16 Data translation: DSCL: a Data Specification and Conversion Language for networks
G. Michael Schneider
May 1975 **Proceedings of the 1975 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press

Full text available: pdf(851.09 KB)   Additional Information: full citation, abstract, references, citings

The rapid growth of large, heterogeneous, resource-sharing computer networks has created a serious problem in the sharing of information between incompatible systems. These incompatibilities can be categorized as either physical or logical in nature. Physical incompatibilities are problems caused by the way that the individual binary digits, regardless of what information they represent, are generated or stored internally. This would include character, word, and record size differences, blocking ...

17 Get your game on: running windows games in Linux
Dee-Ann LeBlanc
January 2006 **Linux Journal,** Volume 2006 Issue 141
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(17.67 KB)   Additional Information: full citation, abstract, index terms

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18 An approach to standardizing computer systems
Edward Morenoff, John B. McLean
January 1967 **Proceedings of the 1967 22nd national conference**
Publisher: ACM Press
Full text available: pdf(836.23 KB)   Additional Information: full citation, abstract, references, index terms

The fundamental goal of an evolutionary approach to upgrading a computer installation is the maintenance of a continuity of operation as various elements of the installation

(equipment components and system support programs) are replaced. The realization of this goal requires the isolation and separation of the inter-dependencies which now exist between the various elements of a computer installation. This includes the inter-dependencies between programs and the characteristics of equipment ...

19 Status report of the graphic standards planning committee

Computer Graphics staff
August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: pdf(15.01 MB)   Additional Information: full citation, references, citings

20 A traffic for MPEG-coded VBR streams

Marwan Krunz, Herman Hughes
May 1995 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1995 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '95/PERFORMANCE '95,** Volume 23 Issue 1

Publisher: ACM Press

Full text available: pdf(835.13 KB)   Additional Information: full citation, abstract, references, citings, index terms

Compression of digital video is the only viable means to transport real-time full-motion video over BISDN/ATM networks. Traffic streams generated by video compressors exhibit complicated patterns which vary from one compression scheme to another. In this paper we investigate the traffic characteristics of video streams which are compressed based on the MPEG standard. Our study is based on 23 minutes of video obtained from an entertainment movie. A particular significance of our data is that it c ...

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S1	2	"6311221".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/06 10:44
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